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Boiling eXperiment Facility – Microheater Array Boiling Experiment (BXF-MABE)

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RESEARCH SUMMARY

- BXF-MABE is one of two investigations scheduled to operate in the Boiling eXperiment Facility (BXF). The other investigation is Boiling eXperiment Facility - Nucleate Pool Boiling Experiment (BXF-NPBX).
- Understanding of microgravity effects on boiling mechanisms is critical to the proper design of heat removal equipment for use in space-based applications.

RESEARCH OPERATIONS

- The crew will activate the experiment after setting it up inside the Microgravity Science Glovebox (MSG).
- Videotape and hard drive changes by the crew will be required.

PREVIOUS MISSIONS

- BXF-MABE is a unique investigation, nothing like this has flown in space before.

WEBSITE

- For more information on BXF-MABE:
<http://exploration.nasa.gov/programs/station/list.html>

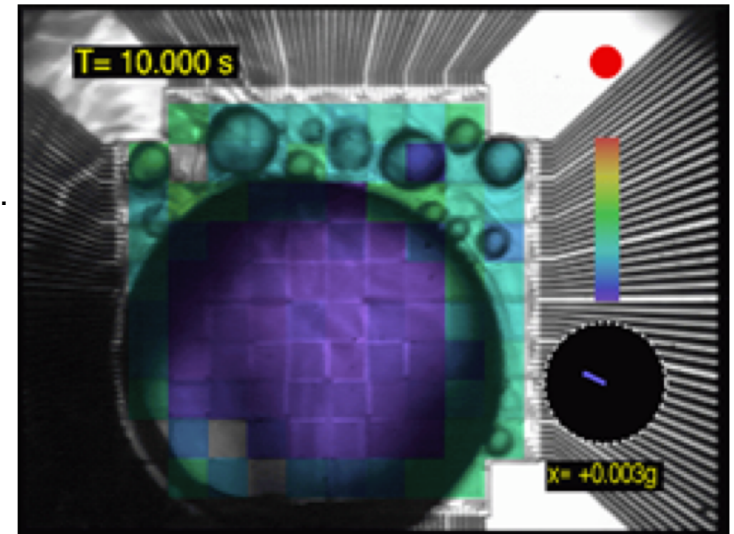


Image of liquid boiling on a heater array during the low gravity produced by NASA's KC-135 aircraft. Blue regions indicate regions of low heat transfer.